

Maryland HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation Infectious Disease Prevention and Health Services Bureau Prevention and Health Promotion Administration Maryland Department of Health http://phpa.health.maryland.gov/OIDEOR/CHSE 1-800-358-9001

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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department
 of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by
 phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in
 correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report
 patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health
 Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140).
 Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland
 Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

Español/Spanish

Hay ayuda disponible en su idioma: 410-767-5227 (TTY: 1-800-735-2258). Estos servicios están disponibles gratis.

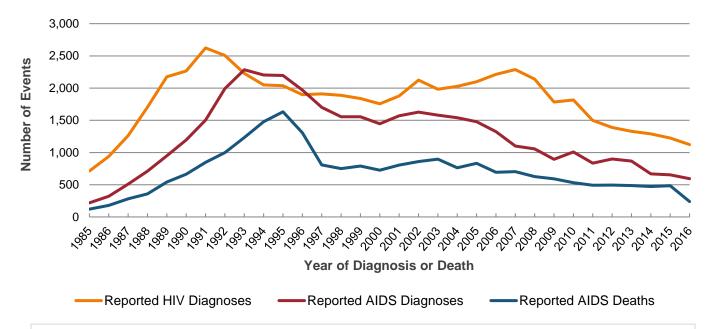
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Section II - Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



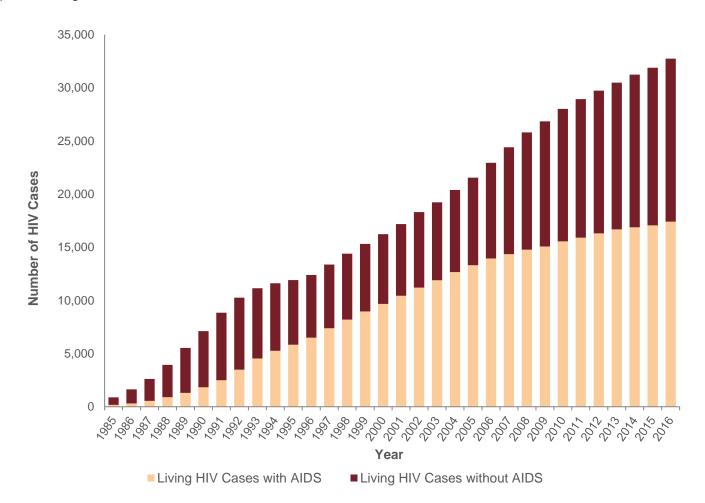
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	361	148	72	2001	1,879	1,569	805
1985	713	219	121	2002	2,125	1,628	859
1986	940	321	180	2003	1,982	1,579	898
1987	1,262	509	280	2004	2,026	1,541	762
1988	1,704	710	359	2005	2,100	1,478	832
1989	2,177	949	541	2006	2,214	1,325	693
1990	2,265	1,196	664	2007	2,287	1,101	703
1991	2,623	1,502	847	2008	2,139	1,057	627
1992	2,505	1,993	999	2009	1,784	894	592
1993	2,229	2,285	1,232	2010	1,815	1,009	531
1994	2,049	2,203	1,479	2011	1,498	834	491
1995	2,036	2,195	1,632	2012	1,388	900	494
1996	1,899	1,969	1,307	2013	1,328	867	486
1997	1,910	1,702	808	2014	1,290	669	472
1998	1,887	1,555	751	2015*	1,225	653	485
1999	1,839	1,555	789	2016*	1,122	595	240
2000	1,755	1,445	725	TOTAL	58,356	40,155	22,756

^{*2015-2016} reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017

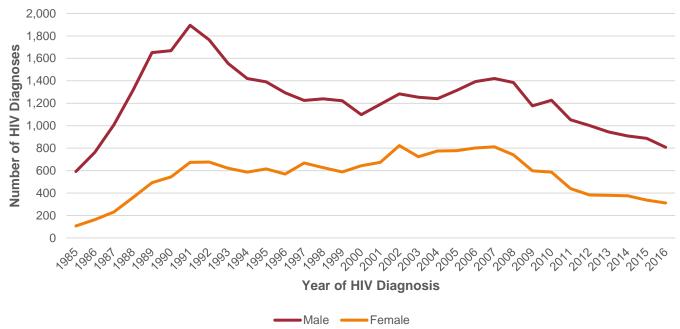


YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	712	173	885	2001	6,729	10,441	17,170
1986	1,324	314	1,638	2002	7,102	11,210	18,312
1987	2,070	544	2,614	2003	7,339	11,891	19,230
1988	3,047	895	3,942	2004	7,714	12,670	20,384
1989	4,232	1,303	5,535	2005	8,223	13,316	21,539
1990	5,273	1,835	7,108	2006	8,986	13,948	22,934
1991	6,346	2,490	8,836	2007	10,060	14,346	24,406
1992	6,770	3,484	10,254	2008	11,017	14,776	25,793
1993	6,599	4,537	11,136	2009	11,763	15,078	26,841
1994	6,354	5,263	11,617	2010	12,453	15,556	28,009
1995	6,080	5,828	11,908	2011	13,027	15,899	28,926
1996	5,899	6,492	12,391	2012	13,417	16,305	29,722
1997	5,991	7,386	13,377	2013	13,786	16,686	30,472
1998	6,202	8,190	14,392	2014	14,344	16,883	31,227
1999	6,356	8,956	15,312	2015	14,827	17,051	31,878
2000	6,556	9,676	16,232	2016	15,336	17,406	32,742

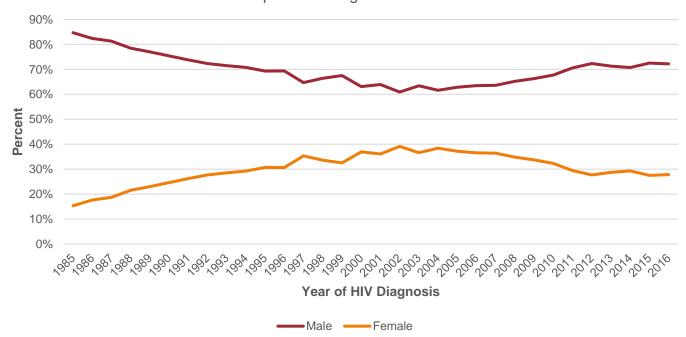
Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





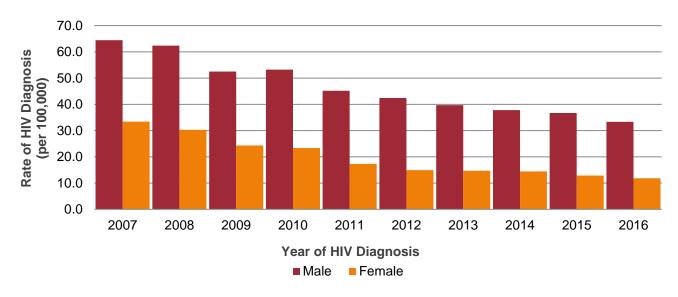
Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017



		ADULT/ADOLESC	ENT REPORTED HIV DIA	AGNOSES	
VEAR OF HIV DIA QUODIO			SEX AT BIR	RTH	
YEAR OF HIV DIAGNOSIS	No.	Male		Female	
		No.	%	No.	%
<1985	358	315	88.0%	43	12.0%
1985	699	592	84.7%	107	15.3%
1986	926	763	82.4%	163	17.6%
1987	1,240	1,008	81.3%	232	18.7%
1988	1,675	1,315	78.5%	360	21.5%
1989	2,143	1,651	77.0%	492	23.0%
1990	2,213	1,669	75.4%	544	24.6%
1991	2,569	1,895	73.8%	674	26.2%
1992	2,443	1,766	72.3%	677	27.7%
1993	2,174	1,554	71.5%	620	28.5%
1994	2,008	1,421	70.8%	587	29.2%
1995	2,006	1,391	69.3%	615	30.7%
1996	1,862	1,293	69.4%	569	30.6%
1997	1,893	1,225	64.7%	668	35.3%
1998	1,867	1,240	66.4%	627	33.6%
1999	1,811	1,223	67.5%	588	32.5%
2000	1,741	1,098	63.1%	643	36.9%
2001	1,865	1,191	63.9%	674	36.1%
2002	2,106	1,283	60.9%	823	39.1%
2003	1,978	1,254	63.4%	724	36.6%
2004	2,016	1,241	61.6%	775	38.4%
2005	2,091	1,313	62.8%	778	37.2%
2006	2,196	1,394	63.5%	802	36.5%
2007	2,233	1,421	63.6%	812	36.4%
2008	2,125	1,385	65.2%	740	34.8%
2009	1,774	1,176	66.3%	598	33.7%
2010	1,812	1,226	67.7%	586	32.3%
2011	1,492	1,053	70.6%	439	29.4%
2012	1,385	1,002	72.3%	383	27.7%
2013	1,325	945	71.3%	380	28.7%
2014	1,284	908	70.7%	376	29.3%
2015	1,225	888	72.5%	337	27.5%
2016	1,118	807	72.2%	311	27.8%
TOTAL	57,653	39,906	69.2%	17,747	30.8%

Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2007-2016, Reported through 6/30/2017

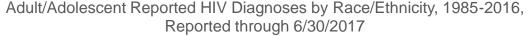
Rate by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2007 through 2016, as Reported through 6/30/2017

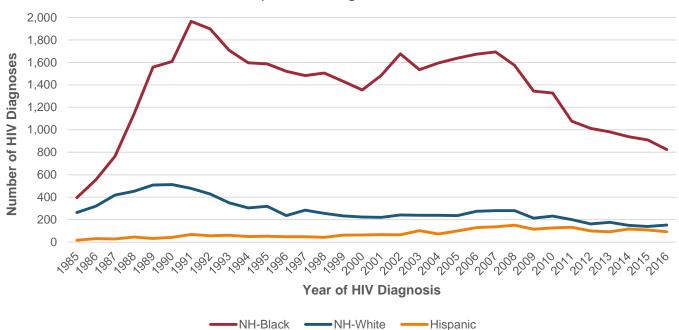


YEAR OF HIV DIAGNOSIS	TOTAL No. of HIV		SEX AT BIRTH	
TEAR OF HIV DIAGNOSIS	DIAGNOSES		MALE	FEMALE
		Population	2,204,771	2,430,739
2007	2,233	Cases	1,421	812
		Rate	64.5	33.4
		Population	2,219,919	2,442,191
2008	2,125	Cases	1,385	740
		Rate	62.4	30.3
		Population	2,238,829	2,460,976
2009	1,774	Cases	1,176	598
		Rate	52.5	24.3
		Population	2,303,746	2,512,469
2010	1,812	Cases	1,226	586
		Rate	53.2	23.3
		Population	2,331,513	2,537,457
2011	1,492	Cases	1,053	439
		Rate	45.2	17.3
0040	4.005	Population	2,360,279	2,563,656
2012	1,385	Cases	1,002	383
		Rate	42.5	14.9
2013	4 225	Population Cases	2,382,313 945	2,581,274
2013	1,325	Rate	39.7	380 14.7
		Population	2,401,118	2,604,485
2014	1,284	Cases	2,401,118	2,004,465
2014	1,204	Rate	37.8	14.4
		Population	2,417,134	2,620,873
2015	1,225	Cases	2,417,134	2,020,073
20.0	1,220	Rate	36.7	12.9
		Population	2,421,197	2,627,675
2016	1,118	Cases	807	311
	.,	Rate	33.3	11.8
			00.0	11.0

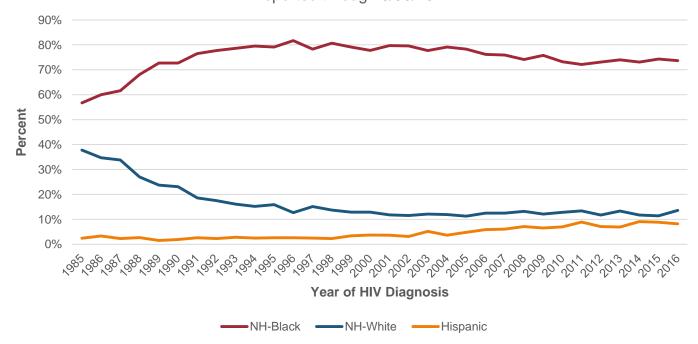
Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

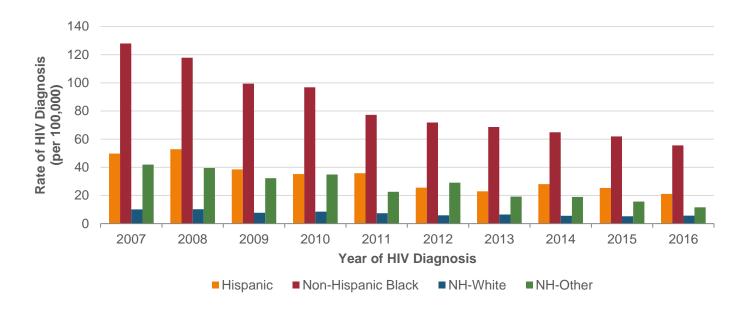


Non-Hispanic Other race not shown

	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES													
YEAR OF					RACE/E	THNICITY								
HIV	No.	Hispa	nic	Non-Hispan only	•	Non-Hispan only		Non-Hispan Race						
DIAGNOSIS	T	No.	%	No.	%	No.	%	No.	%					
<1985	358	9	2.5%	201	56.1%	138	38.5%	10	2.8%					
1985	699	17	2.4%	396	56.7%	264	37.8%	22	3.1%					
1986	926	31	3.3%	556	60.0%	321	34.7%	18	1.9%					
1987	1,240	28	2.3%	764	61.6%	419	33.8%	29	2.3%					
1988	1,675	45	2.7%	1,140	68.1%	453	27.0%	37	2.2%					
1989	2,143	32	1.5%	1,558	72.7%	508	23.7%	45	2.1%					
1990	2,213	42	1.9%	1,608	72.7%	512	23.1%	51	2.3%					
1991	2,569	68	2.6%	1,965	76.5%	478	18.6%	58	2.3%					
1992	2,443	57	2.3%	1,898	77.7%	428	17.5%	60	2.5%					
1993	2,174	61	2.8%	1,708	78.6%	350	16.1%	55	2.5%					
1994	2,008	50	2.5%	1,596	79.5%	305	15.2%	57	2.8%					
1995	2,006	52	2.6%	1,586	79.1%	319	15.9%	49	2.4%					
1996	1,862	48	2.6%	1,521	81.7%	236	12.7%	57	3.1%					
1997	1,893	48	2.5%	1,482	78.3%	285	15.1%	78	4.1%					
1998	1,867	43	2.3%	1,506	80.7%	256	13.7%	62	3.3%					
1999	1,811	62	3.4%	1,432	79.1%	233	12.9%	84	4.6%					
2000	1,741	64	3.7%	1,355	77.8%	224	12.9%	98	5.6%					
2001	1,865	67	3.6%	1,486	79.7%	220	11.8%	92	4.9%					
2002	2,106	66	3.1%	1,676	79.6%	242	11.5%	122	5.8%					
2003	1,978	103	5.2%	1,536	77.7%	239	12.1%	100	5.1%					
2004	2,016	73	3.6%	1,595	79.1%	239	11.9%	109	5.4%					
2005	2,091	100	4.8%	1,638	78.3%	237	11.3%	116	5.5%					
2006	2,196	130	5.9%	1,673	76.2%	275	12.5%	118	5.4%					
2007	2,233	136	6.1%	1,694	75.9%	280	12.5%	123	5.5%					
2008	2,125	151	7.1%	1,574	74.1%	281	13.2%	119	5.6%					
2009	1,774	115	6.5%	1,345	75.8%	214	12.1%	100	5.6%					
2010	1,812	126	7.0%	1,327	73.2%	232	12.8%	127	7.0%					
2011	1,492	133	8.9%	1,076	72.1%	200	13.4%	83	5.6%					
2012	1,385	99	7.1%	1,013	73.1%	162	11.7%	111	8.0%					
2013	1,325	92	6.9%	981	74.0%	176	13.3%	76	5.7%					
2014	1,284	117	9.1%	939	73.1%	150	11.7%	78	6.1%					
2015	1,225	108	8.8%	910	74.3%	140	11.4%	67	5.5%					
2016	1,118	92	8.2%	824	73.7%	152	13.6%	50	4.5%					
TOTAL	57,653	2,465	4.3%	43,559	75.6%	9,168	15.9%	2,461	4.3%					

Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2007-2016, Reported through 6/30/2017

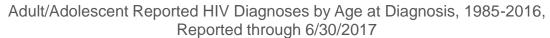
Rate of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2007 through 2016, as Reported through 6/30/2017

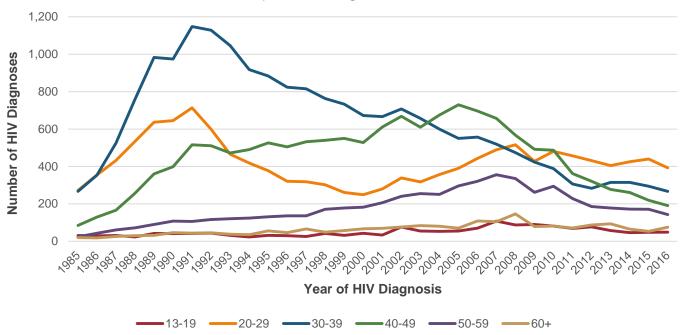


YEAR OF HIV	TOTAL NO. OF			RACE/ETHNICITY		
DIAGNOSIS	HIV DIAGNOSES		Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
		Population	273,408	1,323,746	2,775,780	293,495
2007	2,233	Cases	136	1,694	280	123
		Rate	49.7	128.0	10.1	41.9
		Population	285,931	1,336,116	2,769,180	301,040
2008	2,125	Cases	151	1,574	281	119
		Rate	52.8	117.8	10.1	39.5
		Population	298,277	1,353,474	2,767,918	309,931
2009	1,774	Cases	115	1,345	214	100
		Rate	38.6	99.4	7.7	32.3
2212		Population	357,468	1,371,064	2,723,736	363,947
2010	1,812	Cases	126	1,327	232	127
		Rate	35.2	96.8	8.5	34.9
2044	4 400	Population	371,383	1,393,686	2,737,345	366,556
2011	1,492	Cases	133	1,076	200	83
		Rate Population	35.8 387,644	77.2 1,410,623	7.3 2,743,271	22.6 382,397
2012	1,385	Cases	367,0 44 99	1,410,623	2,743,271	362,397 111
2012	1,300	Rate	25.5	71.8	5.9	29.0
		Population	400,635	1,429,549	2,738,027	395,374
2013	1,325	Cases	92	981	176	76
2010	1,020	Rate	23.0	68.6	6.4	19.2
		Population	417,605	1,448,739	2,727,042	412,218
2014	1,284	Cases	117	939	150	78
	, -	Rate	28.0	64.8	5.5	18.9
		Population	427,308	1,469,412	2,714,422	426,865
2015	1,225	Cases	108	910	140	67
	•	Rate	25.3	61.9	5.2	15.7
		Population	435,996	1,484,918	2,695,282	432,676
2016	1,118	Cases	92	824	152	50
		Rate	21.1	55.5	5.6	11.6

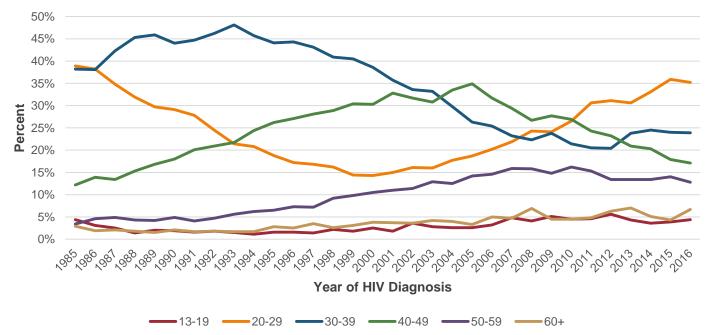
Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





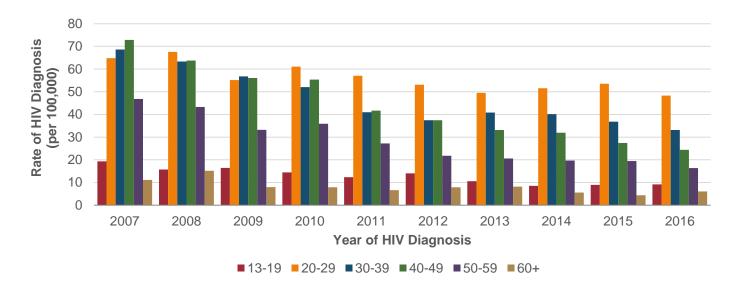
Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017



					ADULT/A	DOLESCEN [®]	T REPORT	ED HIV D I	AGNOSES				
YEAR OF HIV						A	GE AT HIV	DIAGNOS	IS				
DIAGNOSIS	No.	Age 1	3-19	Age 2	20-29	Age 3	30-39	Age 4	40-49	Age	50-59	Age	60+
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	358	26	7.3%	147	41.1%	110	30.7%	53	14.8%	18	5.0%	4	1.1%
1985	699	31	4.4%	272	38.9%	267	38.2%	85	12.2%	24	3.4%	20	2.9%
1986	926	29	3.1%	354	38.2%	353	38.1%	129	13.9%	43	4.6%	18	1.9%
1987	1,240	31	2.5%	432	34.8%	524	42.3%	166	13.4%	61	4.9%	26	2.1%
1988	1,675	23	1.4%	534	31.9%	759	45.3%	257	15.3%	72	4.3%	30	1.8%
1989	2,143	42	2.0%	636	29.7%	983	45.9%	360	16.8%	90	4.2%	32	1.5%
1990	2,213	41	1.9%	645	29.1%	974	44.0%	399	18.0%	108	4.9%	46	2.1%
1991	2,569	42	1.6%	713	27.8%	1,148	44.7%	516	20.1%	106	4.1%	44	1.7%
1992	2,443	44	1.8%	599	24.5%	1,128	46.2%	511	20.9%	116	4.7%	45	1.8%
1993	2,174	32	1.5%	465	21.4%	1,046	48.1%	472	21.7%	121	5.6%	38	1.7%
1994	2,008	23	1.1%	418	20.8%	918	45.7%	490	24.4%	124	6.2%	35	1.7%
1995	2,006	32	1.6%	377	18.8%	884	44.1%	526	26.2%	131	6.5%	56	2.8%
1996	1,862	30	1.6%	321	17.2%	824	44.3%	505	27.1%	136	7.3%	46	2.5%
1997	1,893	26	1.4%	318	16.8%	815	43.1%	532	28.1%	136	7.2%	66	3.5%
1998	1,867	42	2.2%	302	16.2%	763	40.9%	540	28.9%	171	9.2%	49	2.6%
1999	1,811	32	1.8%	261	14.4%	733	40.5%	550	30.4%	178	9.8%	57	3.1%
2000	1,741	43	2.5%	249	14.3%	672	38.6%	528	30.3%	182	10.5%	67	3.8%
2001	1,865	33	1.8%	280	15.0%	666	35.7%	611	32.8%	206	11.0%	69	3.7%
2002	2,106	76	3.6%	339	16.1%	707	33.6%	668	31.7%	240	11.4%	76	3.6%
2003	1,978	55	2.8%	317	16.0%	657	33.2%	610	30.8%	255	12.9%	84	4.2%
2004	2,016	53	2.6%	357	17.7%	600	29.8%	675	33.5%	251	12.5%	80	4.0%
2005	2,091	55	2.6%	390	18.7%	550	26.3%	730	34.9%	296	14.2%	70	3.3%
2006	2,196	70	3.2%	443	20.2%	557	25.4%	696	31.7%	321	14.6%	109	5.0%
2007	2,233	108	4.8%	489	21.9%	519	23.2%	657	29.4%	356	15.9%	104	4.7%
2008	2,125	87	4.1%	516	24.3%	474	22.3%	567	26.7%	335	15.8%	146	6.9%
2009	1,774	90	5.1%	428	24.1%	423	23.8%	492	27.7%	262	14.8%	79	4.5%
2010	1,812	81	4.5%	481	26.5%	388	21.4%	487	26.9%	294	16.2%	81	4.5%
2011	1,492	68	4.6%	457	30.6%	306	20.5%	362	24.3%	228	15.3%	71	4.8%
2012	1,385	77	5.6%	431	31.1%	283	20.4%	321	23.2%	186	13.4%	87	6.3%
2013	1,325	57	4.3%	405	30.6%	315	23.8%	277	20.9%	178	13.4%	93	7.0%
2014	1,284	46	3.6%	425	33.1%	315	24.5%	261	20.3%	172	13.4%	65	5.1%
2015	1,225	48	3.9%	440	35.9%	294	24.0%	219	17.9%	171	14.0%	53	4.3%
2016	1,118	49	4.4%	393	35.2%	267	23.9%	191	17.1%	143	12.8%	75	6.7%
Total	57.653	1,622	2.8%	13,634	23.6%	20,222	35.1%	14,443	25.1%	5,711	9.9%	2,021	3.5%

Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2007-2016, Reported through 6/30/2017

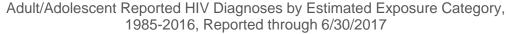
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2007 through 2016, as Reported through 6/30/2017

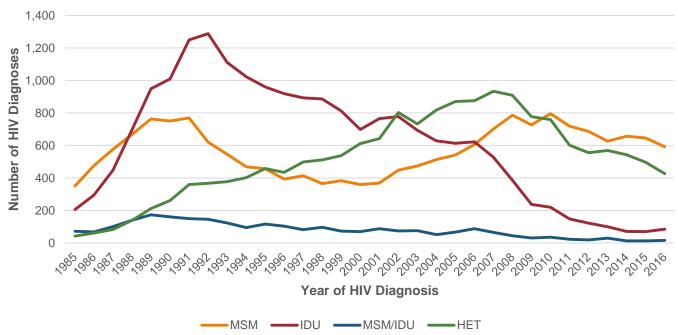


YEAR OF	TOTAL NO. OF			Age	AT HIV DIAGNO	SIS		
HIV Diagnosis	HIV DIAGNOSES		Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+
		Population	558,452	754,712	756,083	902,196	760,351	934,634
2007	2,233	Cases	108	489	519	657	356	104
		Rate	19.3	64.8	68.6	72.8	46.8	11.1
		Population	553,855	763,450	748,586	889,690	773,153	963,533
2008	2,125	Cases	87	516	474	567	335	146
		Rate	15.7	67.6	63.3	63.7	43.3	15.2
		Population	547,568	775,650	744,736	877,993	789,380	994,273
2009	1,774	Cases	90	428	423	492	262	79
		Rate	16.4	55.2	56.8	56.0	33.2	7.9
		Population	559,289	787,246	745,903	879,748	818,608	1,025,421
2010	1,812	Cases	81	481	388	487	294	81
		Rate	14.5	61.1	52.0	55.4	35.9	7.9
2211		Population	549,363	800,985	746,128	868,133	838,152	1,066,209
2011	1,492	Cases	68	457	306	362	228	71
		Rate	12.4	57.1	41.0	41.7	27.2	6.7
2042	4.005	Population	547,321	811,949	756,067	856,920	853,272	1,098,406
2012	1,385	Cases Rate	77 14.1	431	283	321	186	87 7.9
		Population	539,781	53.1 817,635	37.4 770,888	37.5 836,318	21.8 863,937	1,135,027
2013	1,325	Cases	539,761	405	315	030,316 277	178	1,135,027
2013	1,323	Rate	10.6	49.5	40.9	33.1	20.6	8.2
		Population	537,622	824,064	784,896	816,003	874,069	1,168,949
2014	1,284	Cases	46	425	315	261	172	1,100,949
2017	1,204	Rate	8.6	51.6	40.1	32.0	19.7	5.6
		Population	535,085	821,815	798,728	799,172	877,441	1,205,766
2015	1,225	Cases	48	440	294	219	171	53
	.,0	Rate	9.0	53.5	36.8	27.4	19.5	4.4
		Population	535,456	813,083	805,789	782,137	873,010	1,239,397
2016	1,118	Cases	49	393	267	191	143	75
	,	Rate	9.2	48.3	33.1	24.4	16.4	6.1

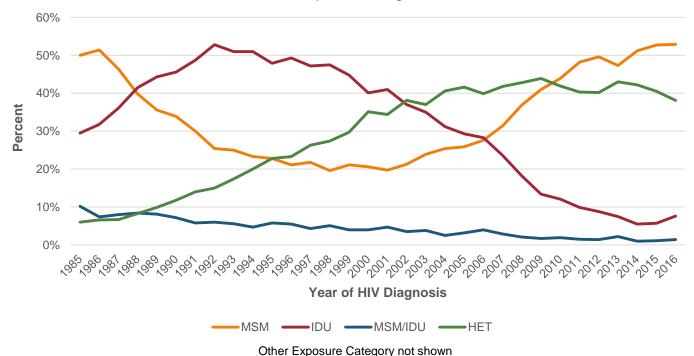
Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category§ of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017



§ Multiple imputation was used to estimate and adjust for missing transmission category.

V					ADULT/AD	OLESCENT	REPORTED	HIV DIAGN	IOSES			
YEAR OF -		% with No				ESTIMA	TED EXPOS	URE CATE				
DIAGNOSIS	No.**	Reported	MS	M	ID	U	MSM	/IDU	HE	T	Other Ex	posure
DIAGNOSIS		Exposure [¥]	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	358	5.9%	211	58.8%	89	24.8%	26	7.4%	19	5.4%	13	3.6%
1985	699	5.2%	350	50.0%	206	29.5%	72	10.2%	42	6.0%	30	4.3%
1986	926	3.5%	475	51.4%	294	31.8%	68	7.4%	61	6.6%	26	2.8%
1987	1,240	3.7%	576	46.4%	447	36.1%	100	8.0%	83	6.7%	35	2.8%
1988	1,675	4.1%	667	39.8%	696	41.5%	140	8.4%	139	8.3%	34	2.0%
1989	2,143	3.7%	763	35.6%	949	44.3%	173	8.1%	212	9.9%	46	2.1%
1990	2,213	4.3%	750	33.9%	1,009	45.6%	160	7.2%	261	11.8%	31	1.4%
1991	2,569	5.2%	769	30.0%	1,249	48.7%	150	5.8%	359	14.0%	37	1.4%
1992	2,443	6.4%	620	25.4%	1,288	52.8%	146	6.0%	367	15.0%	19	0.8%
1993	2,174	4.8%	545	25.0%	1,110	51.0%	123	5.6%	377	17.4%	20	0.9%
1994	2,008	5.7%	468	23.3%	1,023	51.0%	94	4.7%	402	20.0%	19	0.9%
1995	2,006	6.6%	457	22.8%	960	47.9%	116	5.8%	458	22.8%	15	0.7%
1996	1,862	7.4%	393	21.1%	918	49.3%	103	5.5%	434	23.3%	13	0.7%
1997	1,893	8.5%	413	21.8%	893	47.2%	82	4.3%	498	26.3%	7	0.4%
1998	1,867	8.7%	365	19.6%	886	47.5%	96	5.1%	511	27.4%	9	0.5%
1999	1,811	9.9%	383	21.1%	812	44.8%	73	4.0%	537	29.7%	6	0.3%
2000	1,741	10.4%	359	20.6%	698	40.1%	70	4.0%	611	35.1%	3	0.2%
2001	1,865	11.0%	368	19.7%	765	41.0%	88	4.7%	642	34.4%	2	0.1%
2002	2,106	12.0%	448	21.3%	778	37.0%	74	3.5%	802	38.1%	3	0.1%
2003	1,978	10.9%	473	23.9%	693	35.0%	76	3.8%	732	37.0%	4	0.2%
2004	2,016	13.5%	513	25.4%	628	31.2%	51	2.5%	818	40.6%	6	0.3%
2005	2,091	17.8%	541	25.9%	613	29.3%	67	3.2%	870	41.6%	1	0.0%
2006	2,196	22.4%	605	27.6%	622	28.3%	88	4.0%	875	39.9%	6	0.3%
2007	2,233	26.3%	701	31.4%	528	23.6%	65	2.9%	933	41.8%	5	0.2%
2008	2,125	33.7%	785	36.9%	386	18.2%	44	2.1%	909	42.8%	1	0.0%
2009	1,774	35.6%	726	41.0%	237	13.4%	30	1.7%	777	43.9%	1	0.1%
2010	1,812	38.0%	795	43.9%	219	12.1%	35	1.9%	759	41.9%	4	0.2%
2011	1,492	37.0%	719	48.2%	148	9.9%	23	1.5%	601	40.3%	0	0.0%
2012	1,385	25.6%	686	49.6%	122	8.8%	19	1.4%	555	40.2%	1	0.1%
2013	1,325	19.5%	626	47.3%	99	7.5%	29	2.2%	569	43.0%	1	0.1%
2014	1,284	18.5%	657	51.2%	71	5.5%	13	1.0%	542	42.2%	0	0.0%
2015	1,225	16.7%	646	52.7%	70	5.7%	13	1.1%	496	40.5%	0	0.0%
2016	1,118	36.0%	592	52.9%	85	7.6%	16	1.4%	426	38.1%	0	0.0%
TOTAL	57,653	14.4%	18,445	32.0%	19,588	34.0%	2,522	4.4%	16,677	28.9%	398	0.7%

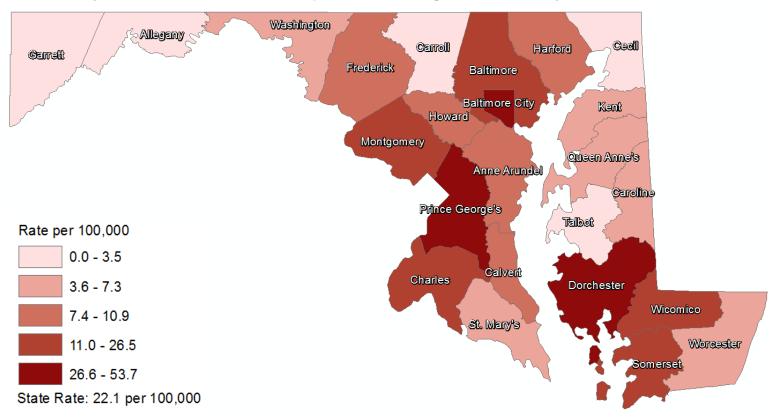
[§] Multiple imputation was used to estimate and adjust for missing transmission category

^{*}Percent with no reported exposure prior to multiple imputation adjustment

^{**} Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation

Section III - Adult/Adolescent Cases by Jurisdiction

Maryland Adult/Adolescent Reported HIV Diagnoses, Rate by Jurisdiction, 2016



The rate of new HIV diagnoses among adults/adolescents in Maryland is 22.1 per 100,000.

Jurisdictions with the highest rate of new HIV diagnoses among adults/adolescents in Maryland include:

Baltimore City:
 Prince George's County:
 Dorchester County:
 Somerset County:
 53.7 per 100,000
 43.3 per 100,000
 36.7 per 100,000
 26.5 per 100,000

The rate of new AIDS diagnoses among adults/adolescents in Maryland is 11.7 per 100,000.

Jurisdictions with the highest rate of new AIDS diagnoses among adults/adolescents in Maryland include:

Baltimore City: 34.0 per 100,000
 Dorchester County: 22.0 per 100,000
 Prince George's County: 22.0 per 100,000
 Queen Anne's County: 9.6 per 100,000

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

				ADULT/ADO	DLESCENT RE	PORTED HIV	DIAGNOSES		
JURISDICTION OF RESIDENCE AT HIV	POPULATION AGE 13+	Na	% of	Dete	Linked t	o Care	Late HIV Diagnoses	First CI Res	
Diagnosis	AGE 13T	No.	Total	Rate -	% 1 mo.	% 3 mo.	%	%	Median Count
Allegany	63,216	2	0.2%	3.2	***	***	***	***	***
Anne Arundel	476,307	43	3.8%	9.0	79.1%	86.0%	39.5%	88.4%	259
Baltimore City	518,161	278	24.9%	53.7	83.1%	88.5%	22.7%	86.0%	415
Baltimore	701,795	139	12.4%	19.8	83.5%	89.9%	24.5%	84.9%	368
Calvert	76,619	8	0.7%	10.4	62.5%	87.5%	***	75.0%	490
Caroline	27,333	2	0.2%	7.3	***	***	***	***	***
Carroll	142,910	2	0.2%	1.4	***	***	***	***	***
Cecil	86,182	3	0.3%	3.5	***	***	***	***	***
Charles	131,050	22	2.0%	16.8	81.8%	90.9%	27.3%	95.5%	325
Dorchester	27,280	10	0.9%	36.7	90.0%	100.0%	50.0%	70.0%	169
Frederick	206,845	17	1.5%	8.2	82.4%	94.1%	***	94.1%	437
Garrett	25,600	0	0.0%	0.0					
Harford	211,682	23	2.1%	10.9	***	***	***	***	***
Howard	262,960	28	2.5%	10.6	82.1%	82.1%	25.0%	82.1%	226
Kent	17,439	1	0.1%	5.7	***	***	***	***	***
Montgomery	868,044	150	13.4%	17.3	78.7%	84.7%	24.0%	86.7%	354
Prince George's	757,629	328	29.3%	43.3	79.6%	85.4%	26.2%	87.2%	378
Queen Anne's	41,644	2	0.2%	4.8	***	***	***	***	***
Saint Mary's	92,866	4	0.4%	4.3	***	***	***	***	***
Somerset	22,676	6	0.5%	26.5	83.3%	83.3%	***	100.0%	502
Talbot	32,436	1	0.1%	3.1	***	***	***	***	***
Washington	126,707	6	0.5%	4.7	100.0%	100.0%	***	100.0%	288
Wicomico	86,374	14	1.3%	16.2	78.6%	92.9%	***	92.9%	419
Worcester	45,116	3	0.3%	6.6	***	***	***	***	***
Corrections		26	2.3%		73.1%	88.5%	***	88.5%	441
TOTAL	5,048,872	1,118	100.0%	22.1	80.7%	87.1%	25.2%	86.6%	374

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

			ADULT/ADOLESCE	ENT REPORTED A	IDS DIAGNOSES	
JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	Population AGE 13+	No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	63,216	3	0.5%	4.7	***	***
Anne Arundel	476,307	28	4.8%	5.9	4.0	57.1%
Baltimore City	518,161	178	30.2%	34.4	6.4	33.1%
Baltimore	701,795	63	10.7%	9.0	4.8	49.2%
Calvert	76,619	2	0.3%	2.6	***	***
Caroline	27,333	0	0.0%	0.0		
Carroll	142,910	2	0.3%	1.4	***	***
Cecil	86,182	5	0.8%	5.8	6.0	40.0%
Charles	131,050	12	2.0%	9.2	2.2	66.7%
Dorchester	27,280	6	1.0%	22.0	2.2	83.3%
Frederick	206,845	3	0.5%	1.5	***	***
Garrett	25,600	0	0.0%	0.0		
Harford	211,682	14	2.4%	6.6	***	***
Howard	262,960	11	1.9%	4.2	2.3	45.5%
Kent	17,439	0	0.0%	0.0		
Montgomery	868,044	63	10.7%	7.3	3.0	57.1%
Prince George's	757,629	167	28.4%	22.0	4.2	50.9%
Queen Anne's	41,644	4	0.7%	9.6	***	***
Saint Mary's	92,866	4	0.7%	4.3	***	***
Somerset	22,676	2	0.3%	8.8	***	***
Talbot	32,436	1	0.2%	3.1	***	***
Washington	126,707	6	1.0%	4.7	4.4	50.0%
Wicomico	86,374	5	0.8%	5.8	2.2	60.0%
Worcester	45,116	0	0.0%	0.0		
Corrections		10	1.7%		1.8	60.0%
Total	5,048,872	589	100.0%	11.7	4.6	47.7%

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT	Population		ADOLESCEN			ADOLESCEN		ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
DIAGNOSIS	Age 13+	No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	63,216	37	0.2%	58.5	31	0.2%	49.0	68	0.2%	107.6	929
Anne Arundel	476,307	543	3.6%	114.0	646	3.8%	135.6	1,189	3.7%	249.6	400
Baltimore City	518,161	5,592	37.1%	1,079.2	6,819	39.7%	1,316.0	12,411	38.5%	2,395.2	41
Baltimore	701,795	1,355	9.0%	193.1	1,526	8.9%	217.4	2,881	8.9%	410.5	243
Calvert	76,619	55	0.4%	71.8	53	0.3%	69.2	108	0.3%	141.0	709
Caroline	27,333	31	0.2%	113.4	34	0.2%	124.4	65	0.2%	237.8	420
Carroll	142,910	60	0.4%	42.0	74	0.4%	51.8	134	0.4%	93.8	1,066
Cecil	86,182	49	0.3%	56.9	63	0.4%	73.1	112	0.3%	130.0	769
Charles	131,050	234	1.6%	178.6	191	1.1%	145.7	425	1.3%	324.3	308
Dorchester	27,280	44	0.3%	161.3	86	0.5%	315.2	130	0.4%	476.5	209
Frederick	206,845	176	1.2%	85.1	152	0.9%	73.5	328	1.0%	158.6	630
Garrett	25,600	5	0.0%	19.5	3	0.0%	11.7	8	0.0%	31.3	3,200
Harford	211,682	197	1.3%	93.1	246	1.4%	116.2	443	1.4%	209.3	477
Howard	262,960	293	1.9%	111.4	276	1.6%	105.0	569	1.8%	216.4	462
Kent	17,439	14	0.1%	80.3	20	0.1%	114.7	34	0.1%	195.0	512
Montgomery	868,044	1,818	12.1%	209.4	1,981	11.5%	228.2	3,799	11.8%	437.7	228
Prince George's	757,629	3,605	23.9%	475.8	3,688	21.5%	486.8	7,293	22.6%	962.6	103
Queen Anne's	41,644	16	0.1%	38.4	37	0.2%	88.8	53	0.2%	127.3	785
Saint Mary's	92,866	67	0.4%	72.1	69	0.4%	74.3	136	0.4%	146.4	682
Somerset	22,676	25	0.2%	110.2	31	0.2%	136.7	56	0.2%	247.0	404
Talbot	32,436	26	0.2%	80.2	32	0.2%	98.7	58	0.2%	178.8	559
Washington	126,707	173	1.1%	136.5	125	0.7%	98.7	298	0.9%	235.2	425
Wicomico	86,374	110	0.7%	127.4	113	0.7%	130.8	223	0.7%	258.2	387
Worcester	45,116	34	0.2%	75.4	44	0.3%	97.5	78	0.2%	172.9	578
Corrections		524	3.5%		820	4.8%		1,344	4.2%		
TOTAL	5,048,872	15,083	100.0%	298.7	17,160	100.0%	339.9	32,243	100.0%	638.6	156

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017

		Adult/Adolescent Total Living HIV Cases									
JURISDICTION OF	POPULATION	R	esidence a	t Diagnosi	is		Current R	esidence		%	
RESIDENCE	Age 13+	No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	Change	
Allegany	63,216	68	0.2%	107.6	929	96	0.3%	151.9	658	41.2%	
Anne Arundel	476,307	1,189	3.7%	249.6	400	1,248	4.1%	262.0	381	5.0%	
Baltimore City	518,161	12,411	38.5%	2,395.2	41	10,491	34.5%	2,024.7	49	-15.5%	
Baltimore	701,795	2,881	8.9%	410.5	243	3,305	10.9%	470.9	212	14.7%	
Calvert	76,619	108	0.3%	141.0	709	130	0.4%	169.7	589	20.4%	
Caroline	27,333	65	0.2%	237.8	420	56	0.2%	204.9	488	-13.8%	
Carroll	142,910	134	0.4%	93.8	1,066	126	0.4%	88.2	1,134	-6.0%	
Cecil	86,182	112	0.3%	130.0	769	135	0.4%	156.6	638	20.5%	
Charles	131,050	425	1.3%	324.3	308	491	1.6%	374.7	266	15.5%	
Dorchester	27,280	130	0.4%	476.5	209	136	0.4%	498.5	200	4.6%	
Frederick	206,845	328	1.0%	158.6	630	374	1.2%	180.8	553	14.0%	
Garrett	25,600	8	0.0%	31.3	3,200	13	0.0%	50.8	1,969	62.5%	
Harford	211,682	443	1.4%	209.3	477	455	1.5%	214.9	465	2.7%	
Howard	262,960	569	1.8%	216.4	462	592	1.9%	225.1	444	4.0%	
Kent	17,439	34	0.1%	195.0	512	33	0.1%	189.2	528	-2.9%	
Montgomery	868,044	3,799	11.8%	437.7	228	3,219	10.6%	370.8	269	-15.3%	
Prince George's	757,629	7,293	22.6%	962.6	103	7,500	24.6%	989.9	101	2.8%	
Queen Anne's	41,644	53	0.2%	127.3	785	54	0.2%	129.7	771	1.9%	
Saint Mary's	92,866	136	0.4%	146.4	682	158	0.5%	170.1	587	16.2%	
Somerset	22,676	56	0.2%	247.0	404	58	0.2%	255.8	390	3.6%	
Talbot	32,436	58	0.2%	178.8	559	69	0.2%	212.7	470	19.0%	
Washington	126,707	298	0.9%	235.2	425	333	1.1%	262.8	380	11.7%	
Wicomico	86,374	223	0.7%	258.2	387	233	0.8%	269.8	370	4.5%	
Worcester	45,116	78	0.2%	172.9	578	88	0.3%	195.1	512	12.8%	
Corrections		1,344	4.2%			1,037	3.4%				
TOTAL	5,048,872	32,243	100.0%	638.6	156	30,430	100.0%	602.7	165	-5.6%	

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

			ADULT/A	DOLESCENT TO	TAL LIVING HI	V CASES		
JURISDICTION OF CURRENT				Recen	t CD4 Test R	esult		
RESIDENCE	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	96	81	84.4%	641	4.9%	8.6%	18.5%	67.9%
Anne Arundel	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%
Baltimore City	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%
Baltimore	3,305	2,201	66.6%	578	10.6%	12.7%	17.1%	59.6%
Calvert	130	101	77.7%	686	8.9%	8.9%	14.9%	67.3%
Caroline	56	34	60.7%	650	5.9%	11.8%	8.8%	73.5%
Carroll	126	78	61.9%	632	6.4%	20.5%	15.4%	57.7%
Cecil	135	85	63.0%	576	5.9%	12.9%	21.2%	60.0%
Charles	491	344	70.1%	584	12.5%	13.7%	16.3%	57.6%
Dorchester	136	101	74.3%	541	12.9%	17.8%	15.8%	53.5%
Frederick	374	259	69.3%	599	3.1%	13.5%	15.1%	68.3%
Garrett	13	10	76.9%	692	0.0%	0.0%	20.0%	80.0%
Harford	455	291	64.0%	542	13.1%	15.5%	16.2%	55.3%
Howard	592	394	66.6%	589	12.9%	11.4%	15.5%	60.2%
Kent	33	25	75.8%	571	4.0%	20.0%	20.0%	56.0%
Montgomery	3,219	2,184	67.8%	561	7.6%	14.6%	20.2%	57.6%
Prince George's	7,500	5,118	68.2%	549	10.9%	13.6%	19.0%	56.5%
Queen Anne's	54	42	77.8%	615	7.1%	14.3%	16.7%	61.9%
Saint Mary's	158	113	71.5%	509	10.6%	20.4%	17.7%	51.3%
Somerset	58	40	69.0%	597	10.0%	12.5%	5.0%	72.5%
Talbot	69	51	73.9%	479	15.7%	17.6%	23.5%	43.1%
Washington	333	246	73.9%	641	10.6%	10.2%	11.8%	67.5%
Wicomico	233	174	74.7%	501	15.5%	13.2%	21.3%	50.0%
Worcester	88	73	83.0%	619	8.2%	12.3%	12.3%	67.1%
Corrections	1,037	700	67.5%	492	18.0%	16.0%	16.7%	49.3%
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

		Adult/Adoli	ESCENT TOTAL LIVING	HIV CASES	
JURISDICTION OF CURRENT RESIDENCE			Recent Viral Lo	ad Test Result	
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	96	78	81.3%	87.2%	10,112
Anne Arundel	1,248	782	62.7%	79.9%	10,471
Baltimore City	10,491	6,414	61.1%	74.0%	9,550
Baltimore	3,305	2,011	60.8%	79.8%	10,070
Calvert	130	104	80.0%	88.5%	12,646
Caroline	56	36	64.3%	77.8%	2,288
Carroll	126	74	58.7%	90.5%	1,000
Cecil	135	83	61.5%	83.1%	12,078
Charles	491	357	72.7%	78.2%	11,154
Dorchester	136	107	78.7%	84.1%	14,889
Frederick	374	263	70.3%	90.9%	26,470
Garrett	13	10	76.9%	90.0%	7,200
Harford	455	274	60.2%	86.1%	19,876
Howard	592	382	64.5%	79.8%	17,500
Kent	33	26	78.8%	100.0%	
Montgomery	3,219	2,182	67.8%	88.9%	8,160
Prince George's	7,500	5,129	68.4%	81.7%	11,740
Queen Anne's	54	42	77.8%	85.7%	14,549
Saint Mary's	158	109	69.0%	82.6%	26,400
Somerset	58	40	69.0%	82.5%	4,500
Talbot	69	49	71.0%	87.8%	8,301
Washington	333	246	73.9%	83.3%	2,871
Wicomico	233	169	72.5%	75.1%	22,513
Worcester	88	73	83.0%	90.4%	28,820
Corrections	1,037	677	65.3%	66.9%	14,856
Total	30,430	19,717	64.8%	79.4%	10,660

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

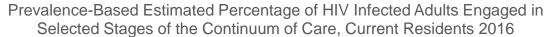
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

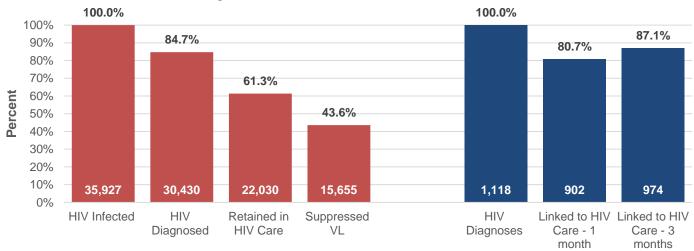
Section IV – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Maryland Residents, Reported through 6/30/2017

The prevalence-based Maryland Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in Maryland. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in Maryland on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.





Engagement in HIV Care

Continuum of Care Stage	Living H	IIV Cases	Continuum of Care Stage	New Diagnoses		
Continuum of Care Stage	Number	Percentage	Continuum of Care Stage	Number	Percentage	
HIV Infected	35,927	100.0%	New HIV Diagnoses	1,118	100.0%	
HIV Diagnosed	30,430	84.7%	Linked to HIV Care – 1 Month	902	80.7%	
Retained in HIV Care	22,030	61.3%	Linked to HIV Care – 3 Months	974	87.1%	
Suppressed VL	15,655	43.6%				

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200

copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

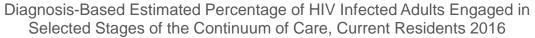
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

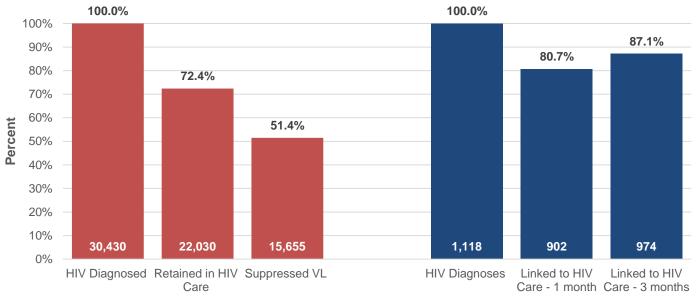
¹ Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. HIV Surveillance Supplemental Report 2017;22(No. 2). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Maryland Residents, Reported through 6/30/2017

The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Maryland residents to describe the number and percentage of persons living with HIV in Maryland on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.





Engagement in HIV Care

Continuum of Care Stage	Living H	IIV Cases	Continuum of Care Stage	New Diagnoses		
Continuum of Care Stage	Number Percentage		Continuum of Care Stage	Number	Percentage	
HIV Diagnosed	30,430	100.0%	New HIV Diagnoses	1,118	100.0%	
Retained in HIV Care	22,030	72.4%	Linked to HIV Care – 1 Month	902	80.7%	
Suppressed VL	15,655	51.4%	Linked to HIV Care – 3 Months	974	87.1%	

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through 6/30/2017

					REPORTE	HIV DIAGN	IOSES		
AGE AT HIV DIAGNOSIS	POPULATION	Na	% of	% of Rate	Linked t	Linked to Care		First CD4 Test Result	
DIAGNOSIS	NO.		No. Total		% 1 mo.	% 3 mo.	Diagnoses %	%	Median Count
<5 (Pediatric)	367,095	2	0.2%	0.5	***	***	***	***	***
5-12 (Pediatric)	600,480	2	0.2%	0.3	***	***	***	***	***
13-19	535,456	49	4.4%	9.2	89.8%	93.9%	6.1%	87.8%	481
20-29	813,083	393	35.0%	48.3	78.6%	86.5%	14.2%	86.8%	428
30-39	805,789	267	23.8%	33.1	81.3%	88.8%	28.1%	87.3%	353
40-49	782,137	191	17.0%	24.4	83.2%	86.9%	31.4%	86.4%	330
50-59	873,010	143	12.7%	16.4	75.5%	81.1%	38.5%	82.5%	293
60+	1,239,397	75	6.7%	6.1	86.7%	92.0%	44.0%	90.7%	260
TOTAL	6,016,447	1,122	100.0%	18.6	80.7%	87.2%	25.1%	86.5%	374

^{***} Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON		TOTAL LIVING HIV CASES									
12/31/2016	Population	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)					
<5	367,095	9	0.0%	22.2%	2.5	40,788					
5-12	600,480	61	0.2%	13.1%	10.2	9,843					
13-19	535,456	197	0.6%	21.8%	36.8	2,718					
20-29	813,083	3,287	10.6%	28.3%	404.3	247					
30-39	805,789	5,696	18.4%	41.6%	706.9	141					
40-49	782,137	7,318	23.7%	58.1%	935.6	106					
50-59	873,010	9,521	30.8%	64.7%	1,090.6	91					
60+	1,239,397	4,813	15.6%	65.9%	388.3	257					
TOTAL	6,016,447	30,902	100.0%	54.8%	513.6	194					

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

ADULT/ADOLESCENT TOTAL LIVING HIV CASES											
AGE ON		Recent CD4 Test Results									
12/31/2016	No. No. with % with Median <2 Test Test Count	<200	200-349	350-499	500+						
13-19	85	64	75.3%	557	1.6%	10.9%	32.8%	54.7%			
20-29	3,031	1,952	64.4%	572	9.8%	11.9%	17.9%	60.3%			
30-39	5,665	3,615	63.8%	557	11.8%	13.4%	17.6%	57.2%			
40-49	7,315	4,850	66.3%	545	12.9%	14.1%	17.7%	55.3%			
50-59	9,521	6,684	70.2%	555	11.5%	14.7%	17.1%	56.8%			
60+	4,813	3,403	70.7%	553	10.3%	14.8%	18.7%	56.2%			
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%			

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

Adult/Adolescent Total Living HIV Cases											
AGE ON		Recent Viral Load Test Result									
12/31/2016	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed						
13-19	85	73	85.9%	52.1%	13,183						
20-29	3,031	2,020	66.6%	65.3%	11,605						
30-39	5,665	3,611	63.7%	75.4%	13,430						
40-49	7,315	4,725	64.6%	79.7%	11,724						
50-59	9,521	6,266	65.8%	82.6%	7,973						
60+	4,813	3,022	62.8%	87.3%	7,968						
TOTAL	30,430	19,717	64.8%	79.4%	10,660						

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

		Adult/Adolescent Reported HIV Diagnoses								
SEX AT BIRTH	Population Age 13+*	No.	% of Total	Rate -	Linked to Care		Late HIV Diagnoses	First CD4 Test Result		
					%	%	%	%	Median	
					1 mo.	3 mo.	, ,		Count	
Male	2,421,197	807	72.2%	33.3	81.7%	87.5%	24.5%	87.1%	374	
Female	2,627,675	311	27.8%	11.8	78.1%	86.2%	27.0%	85.2%	386	
TOTAL	5,048,872	1,118	100.0%	22.1	80.7%	87.1%	25.2%	86.6%	374	

	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
RACE/ETHNICITY	POPULATION AGE 13+*	No.	% of Total	Rate -	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Hispanic	435,996	92	8.2%	21.1	82.6%	88.0%	22.8%	89.1%	397
Non-Hispanic	4,612,876	1,026	91.8%	22.2	80.5%	87.0%	25.4%	86.4%	373
American Indian/Alaska Native, only	12,507	0	0.0%	0.0					
Asian, only	328,312	18	1.6%	5.5	77.8%	77.8%	27.8%	83.3%	374
Black, only	1,484,918	824	73.7%	55.5	80.2%	87.1%	24.0%	86.8%	375
Native Hawaiian/Other Pacific Islander, only	2,497	0	0.0%	0.0					
White, only	2,695,282	152	13.6%	5.6	80.3%	86.2%	32.9%	82.2%	353
Multiracial/ Other	89,360	32	2.9%	35.8	90.6%	93.8%	25.0%	96.9%	308
TOTAL	5,048,872	1,118	100.0%	22.1	80.7%	87.1%	25.2%	86.6%	374

	Adult/Adolescent Reported HIV Diagnoses								
Country of Birth	POPULATION AGE 13+**	No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
United States	4,140,334	918	82.1%	22.2	80.0%	86.8%	24.8%	85.6%	373
Foreign-born	819,062	152	13.6%	18.6	82.9%	88.2%	27.6%	91.4%	412
Africa		95	8.5%		78.9%	85.3%	28.4%	89.5%	352
Asia		10	0.9%		90.0%	90.0%	***	100.0%	376
Caribbean		19	1.7%		89.5%	89.5%	***	84.2%	481
Central America		17	1.5%		88.2%	94.1%	35.3%	100.0%	402
Other		11	1.0%		90.9%	100.0%	***	100.0%	553
Unknown		48	4.3%		87.5%	89.6%	25.0%	89.6%	328
TOTAL	4,959,396	1,118	100.0%	22.5	80.7%	87.1%	25.2%	86.6%	374

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

^{**} Population data by country of birth are from the 2015 American Community Survey

^{***} Data withheld due to low population and/or case counts

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

	POPULATION .	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
SEX AT BIRTH	Age 13+	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)			
Male	2,421,197	20,247	66.5%	54.1%	836.2	119			
Female	2,627,675	10,183	33.5%	56.4%	387.5	258			
TOTAL	5,048,872	30,430	100.0%	54.9%	602.7	165			

	POPULATION .		Adult/Adolescent Total Living HIV Cases							
RACE/ETHNICITY	AGE 13+*	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)				
Hispanic	435,996	1,905	6.3%	54.7%	436.9	228				
Non-Hispanic	4,612,876	28,525	93.7%	54.9%	618.4	161				
American Indian/Alaska Native, only	12,507	14	0.0%	28.6%	111.9	893				
Asian, only	328,312	189	0.6%	37.0%	57.6	1,737				
Black, only	1,484,918	22,572	74.2%	55.5%	1,520.1	65				
Native Hawaiian/ Other Pacific Islander, only	2,497	4	0.0%	50.0%	160.2	624				
White, only	2,695,282	3,989	13.1%	50.6%	148.0	675				
Multiracial/ Other	89,360	1,757	5.8%	59.2%	1,966.2	50				
TOTAL	5,048,872	30,430	100.0%	54.9%	602.7	165				

Country Of	POPULATION .	Adult/Adolescent Total Living HIV Cases							
BIRTH	AGE 13+**	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)			
United States	4,140,334	26,783	88.0%	55.4%	646.9	154			
Foreign-born	819,062	2,725	9.0%	56.1%	332.7	300			
Africa		1,669	5.5%	55.4%					
Asia		165	0.5%	50.3%					
Caribbean		211	0.7%	52.1%					
Central America		457	1.5%	64.3%					
Other		223	0.7%	52.0%					
Unknown		922	3.0%	35.0%					
TOTAL	4,959,396	30,430	100.0%	54.9%	613.6	162			

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

^{**} Population data by country of birth are from the 2015 American Community Survey

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

	ADULT/ADOLESCENT TOTAL LIVING HIV CASES									
Sex At Birth	No.	Recent CD4 Test Result								
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+		
Male	20,247	13,475	66.6%	537	11.6%	14.7%	18.6%	55.0%		
Female	10,183	7,093	69.7%	593	11.2%	12.7%	15.9%	60.1%		
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%		

	Adult/Adolescent Total Living HIV Cases								
RACE/ETHNICITY				Recer	nt CD4 Test R	lesult			
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+	
Hispanic	1,905	1,331	69.9%	538	10.7%	15.0%	18.8%	55.5%	
Non-Hispanic	28,525	19,237	67.4%	555	11.5%	14.0%	17.6%	56.8%	
American Indian/Alaska Native, only	14	***	***	***	***	***	***	***	
Asian, only	189	120	63.5%	532	5.0%	12.5%	28.3%	54.2%	
Black, only	22,572	15,214	67.4%	545	12.0%	14.4%	18.0%	55.6%	
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***	***	***	***	
White, only	3,989	2,642	66.2%	614	8.4%	12.2%	14.8%	64.6%	
Multiracial/Other	1,757	1,255	71.4%	554	12.8%	13.1%	18.4%	55.6%	
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%	

			ADULT/A	DOLESCENT TO	TAL LIVING HI	/ CASES			
Country Of Birth		Recent CD4 Test Result							
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+	
United States	26,783	18,092	67.6%	556	11.9%	14.0%	17.2%	56.9%	
Foreign-born	2,725	1,923	70.6%	537	8.3%	14.2%	22.7%	54.8%	
Africa	1,669	1,184	70.9%	534	7.4%	14.9%	23.4%	54.3%	
Asia	165	108	65.5%	489	7.4%	14.8%	28.7%	49.1%	
Caribbean	211	155	73.5%	581	10.3%	10.3%	20.6%	58.7%	
Central America	457	320	70.0%	510	10.9%	16.9%	20.9%	51.3%	
Other	223	156	70.0%	610	7.7%	7.7%	19.2%	65.4%	
Unknown	922	553	60.0%	562	8.7%	16.1%	17.2%	58.0%	
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%	

^{***} Data withheld due to low population and/or case counts

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

	Adult/Adolescent Total Living HIV Cases							
Sex At Birth		Recent Viral Load Test Result						
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed			
Male	20,247	12,903	63.7%	79.9%	11,625			
Female	10,183	6,814	66.9%	78.6%	9,333			
TOTAL	30,430	19,717	64.8%	79.4%	10,660			

	ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
RACE/ETHNICITY		Recent Viral Load Test Result							
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed				
Hispanic	1,905	1,292	67.8%	83.1%	15,633				
Non-Hispanic	28,525	18,425	64.6%	79.2%	10,310				
American Indian/Alaska Native, only	14	***	***	***	***				
Asian, only	189	119	63.0%	87.4%	9,700				
Black, only	22,572	14,638	64.9%	78.0%	10,135				
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***				
White, only	3,989	2,471	61.9%	85.2%	10,763				
Multiracial/Other	1,757	1,190	67.7%	80.8%	10,284				
TOTAL	30,430	19,717	64.8%	79.4%	10,660				

		Adult/Adolescent Total Living HIV Cases							
Country of Birth		Recent Viral Load Test Result							
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed				
United States	26,783	17,298	64.6%	78.5%	10,600				
Foreign-born	2,725	1,870	68.6%	87.4%	10,398				
Africa	1,669	1,154	69.1%	88.6%	7,553				
Asia	165	100	60.6%	87.0%	19,360				
Caribbean	211	152	72.0%	79.6%	11,650				
Central America	457	311	68.1%	85.2%	13,517				
Other	223	153	68.6%	90.2%	18,435				
Unknown	922	549	59.5%	80.9%	12,860				
TOTAL	30,430	19,717	64.8%	79.4%	10,660				

^{***} Data withheld due to low population and/or case counts

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

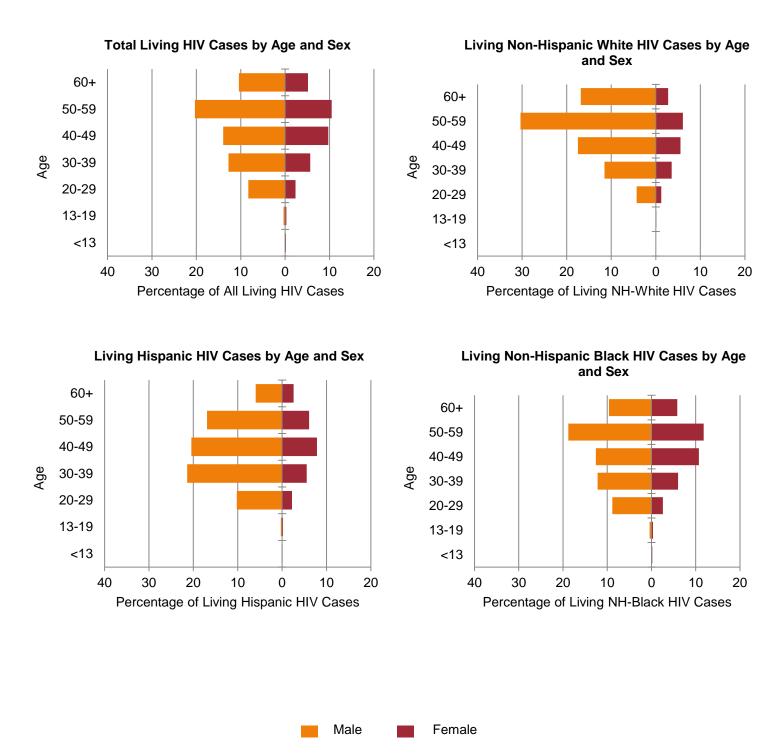
With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

		Total	LIVING MALE HIV	CASES		
			RACE/E	THNICITY		
AGE ON 12/31/2016		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	TOTAL MALES BY AGE GROUP
	Population	76,966	151,343	206,827	58,133	493,269
<13 (Pediatric)	Cases	2	15	1	2	20
<13 (Pediatric)	Rate	2.6	9.9	0.5	3.4	4.1
	Ratio (1 in X)	38,483	10,089	206,827	29,066	24,663
	Population	32,185	85,645	126,565	28,355	272,750
13-19	Cases	6	99	3	6	114
13-19	Rate	18.6	115.6	2.4	21.2	41.8
	Ratio (1 in X)	5,364	865	42,188	4,725	2,392
	Population	47,429	130,969	194,106	37,281	409,785
20-29	Cases	197	2,033	172	157	2,559
20-29	Rate	415.4	1,552.3	88.6	421.1	624.5
	Ratio (1 in X)	240	64	1,128	237	160
	Population	57,942	111,720	188,218	37,582	395,462
20.20	Cases	412	2,795	463	273	3,943
30-39	Rate	711.1	2,501.8	246.0	726.4	997.1
	Ratio (1 in X)	140	39	406	137	100
	Population	43,965	110,729	187,835	34,805	377,334
40.40	Cases	394	2,888	702	330	4,314
40-49	Rate	896.2	2,608.2	373.7	948.1	1,143.3
	Ratio (1 in X)	111	38	267	105	87
	Population	26,717	116,793	245,880	28,645	418,035
50.50	Cases	326	4,323	1,219	414	6,282
50-59	Rate	1,220.2	3,701.4	495.8	1,445.3	1,502.7
	Ratio (1 in X)	81	27	201	69	66
	Population	19,229	124,485	368,424	35,693	547,831
00.	Cases	115	2,210	676	215	3,216
60+	Rate	598.1	1,775.3	183.5	602.4	587.0
	Ratio (1 in X)	167	56	545	166	170
	Population	304,433	831,684	1,517,855	260,494	2,914,466
TOTAL MALES	Cases	1,452	14,363	3,236	1,397	20,448
BY RACE/ETHNICITY	Rate	477.0	1,727.0	213.2	536.3	701.6
TAOL/ETTINICITY	Ratio (1 in X)	209	57	469	186	142

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING FEMALE HIV CASES										
			RACE/E1	THNICITY						
AGE ON 12/31/2016		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	TOTAL FEMALES BY AGE GROUP				
	Population	73,839	146,783	197,311	56,373	474,306				
12 (Dadietrie)	Cases	2	41	2	5	50				
<13 (Pediatric)	Rate	2.7	27.9	1.0	8.9	10.5				
	Ratio (1 in X)	36,919	3,580	98,655	11,274	9,486				
	Population	30,251	84,152	120,279	28,024	262,706				
13-19	Cases	4	74	4	1	83				
13-19	Rate	13.2	87.9	3.3	3.6	31.6				
	Ratio (1 in X)	7,562	1,137	30,069	28,024	3,165				
	Population	41,912	135,104	186,920	39,362	403,298				
20-29	Cases	43	592	50	43	728				
20-29	Rate	102.6	438.2	26.7	109.2	180.5				
	Ratio (1 in X)	974	228	3,738	915	553				
	Population	47,716	130,812	187,790	44,009	410,327				
30-39	Cases	107	1,385	143	118	1,753				
30-39	Rate	224.2	1,058.8	76.1	268.1	427.2				
	Ratio (1 in X)	445	94	1,313	372	234				
	Population	38,043	130,894	194,863	41,003	404,803				
40-49	Cases	151	2,465	223	165	3,004				
40-49	Rate	396.9	1,883.2	114.4	402.4	742.1				
	Ratio (1 in X)	251	53	873	248	134				
	Population	25,953	141,141	253,796	34,085	454,975				
50-59	Cases	117	2,713	244	165	3,239				
50-59	Rate	450.8	1,922.2	96.1	484.1	711.9				
	Ratio (1 in X)	221	52	1,040	206	140				
	Population	24,654	182,475	440,605	43,832	691,566				
60+	Cases	50	1,339	112	96	1,597				
00+	Rate	202.8	733.8	25.4	219.0	230.9				
	Ratio (1 in X)	493	136	3,933	456	433				
T	Population	282,368	951,361	1,581,564	286,688	3,101,981				
TOTAL FEMALES	Cases	474	8,609	778	593	10,454				
BY RACE/ETHNICITY	Rate	167.9	904.9	49.2	206.8	337.0				
	Ratio (1 in X)	595	110	2,032	483	296				

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

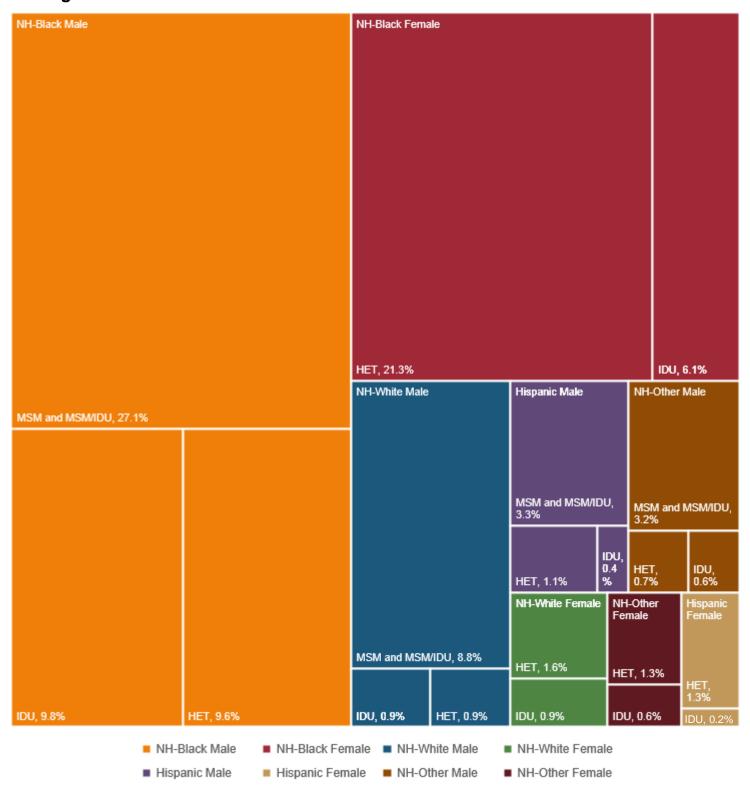
Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII - HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Other exposure category not shown (<1%)
Multiple imputation was used to estimate and adjust for missing transmission category

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

		Ac	ULT/ADOLESCE	NT REPORTED	HIV DIAGNOSE	S	
Exposure Category**	No.	% of Total	Linked t	o Care	Late HIV Diagnoses	First CD4 Test Result	
	NO.	Exposure	% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	715	100.0%	84.2%	90.2%	23.6%	89.1%	392
Men who have Sex with Men (MSM)	406	56.8%	82.8%	89.4%	21.9%	87.7%	395
Injection Drug Users (IDU)	31	4.3%	87.1%	87.1%	***	87.1%	444
Men who have Sex with Men and Inject Drugs (MSM/IDU)	7	1.0%	85.7%	85.7%	***	85.7%	464
Heterosexual Exposure (HET)	271	37.9%	86.0%	91.9%	25.5%	91.5%	379
Other Exposure	0	0.0%					
No Reported Exposure*	403		74.4%	81.6%	28.0%	82.1%	338
TOTAL	1,118	-	80.7%	87.1%	25.2%	86.6%	374

		ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
Male Exposure Category**	Na	% of Total No. with – Exposure	Linked to Care		Late HIV Diagnoses	First CD4	First CD4 Test Result				
	NO.		% 1 mo.	% 3 mo.	%	%	Median Count				
With Exposure	532	100.0%	84.0%	90.0%	23.5%	88.9%	384				
Men who have Sex with Men (MSM)	406	76.3%	82.8%	89.4%	21.9%	87.7%	395				
Injection Drug Users (IDU)	21	3.9%	85.7%	85.7%	***	90.5%	444				
Men who have Sex with Men and Inject Drugs (MSM/IDU)	7	1.3%	85.7%	85.7%	***	85.7%	464				
Heterosexual Exposure (HET)	98	18.4%	88.8%	93.9%	28.6%	93.9%	343				
Other Exposure	0	0.0%									
No Reported Exposure	275		77.1%	82.5%	26.5%	83.6%	343				
TOTAL	807		81.7%	87.5%	24.5%	87.1%	374				

	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
FEMALE EXPOSURE CATEGORY**	No.	% of Total with - Exposure	Linked to Care		Late HIV Diagnoses	First CD4 T	est Result			
Mish Function	140.		% 1 mo.	% 3 mo.	%	%	Median Count			
With Exposure	183	100.0%	84.7%	90.7%	24.0%	89.6%	437			
Injection Drug Users (IDU)	10	5.5%	90.0%	90.0%	***	80.0%	496			
Heterosexual Exposure (HET)	173	94.5%	84.4%	90.8%	***	90.2%	437			
Other Exposure	0	0.0%								
No Reported Exposure*	128		68.8%	79.7%	31.3%	78.9%	335			
Total	311		78.1%	86.2%	27.0%	85.2%	386			

^{*} Includes 6 new HIV diagnoses with Presumed Female Heterosexual exposure

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

^{**2016} reported HIV exposure data are preliminary

^{***} Data withheld due to low population and/or case counts

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

	Adult/A	DOLESCENT TOTAL LIVING H	IV CASES
Exposure Category	No.	% of Total with Exposure	% Living with AIDS
With Exposure	25,555	100.0%	58.1%
Men who have Sex with Men (MSM)	10,112	39.6%	48.7%
Injection Drug Users (IDU)	5,047	19.7%	74.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	979	3.8%	70.6%
Heterosexual Exposure (HET)	9,347	36.6%	58.0%
Other Exposures	70	0.3%	70.0%
No Reported Exposure*	4,875		38.0%
TOTAL	30,430		54.9%

	Adult/At	DOLESCENT TOTAL LIVING H	IIV Cases
Male Exposure Category	No.	% of Total with Exposure	% Living with AIDS
With Exposure	17,352	100.0%	56.9%
Men who have Sex with Men (MSM)	10,112	58.3%	48.7%
Injection Drug Users (IDU)	3,072	17.7%	74.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	979	5.6%	70.6%
Heterosexual Exposure (HET)	3,155	18.2%	61.2%
Other Exposures	34	0.2%	67.6%
No Reported Exposure	2,895		37.4%
TOTAL	20,247		54.1%

	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
FEMALE EXPOSURE CATEGORY	No.	% of Total with Exposure	% Living with AIDS					
With Exposure	8,203	100.0%	60.7%					
Injection Drug Users (IDU)	1,975	24.1%	73.9%					
Heterosexual Exposure (HET)	6,192	75.5%	56.4%					
Other Exposures	36	0.4%	72.2%					
No Reported Exposure*	1,980		38.8%					
TOTAL	10,183	-	56.4%					

^{*} Includes 127 living HIV cases with Presumed Female Heterosexual exposure

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

	Adult/Adolescent Total Living HIV Cases								
		Race/Ethnicity							
Exposure Category	Hi	ispanic	Non-Hispa	nic, Black, only	Non-Hispa	anic, White, only			
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure			
With Exposure	1,670	100.0%	18,744	100.0%	3,404	100.0%			
Men who have Sex with Men (MSM)	823	49.3%	6,346	33.9%	2,143	63.0%			
Injection Drug Users (IDU)	150	9.0%	4,071	21.7%	494	14.5%			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	55	3.3%	684	3.6%	156	4.6%			
Heterosexual Exposure (HET)	641	38.4%	7,598	40.5%	592	17.4%			
Other Exposures	1	0.1%	45	0.2%	19	0.6%			
No Reported Exposure*	235		3,828		585				
TOTAL	1,905		22,572		3,989				

	Adult/Adolescent Total Living HIV Cases									
	Race/Ethnicity									
Male Exposure Category	Н	ispanic	Non-Hispa	nic, Black, only	Non-Hispanic, White, only					
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure				
With Exposure	1,280	100.0%	12,041	100.0%	2,794	100.0%				
Men who have Sex with Men (MSM)	823	64.3%	6,346	52.7%	2,143	76.7%				
Injection Drug Users (IDU)	98	7.7%	2,544	21.1%	259	9.3%				
Men who have Sex with Men and Inject Drugs (MSM/IDU)	55	4.3%	684	5.7%	156	5.6%				
Heterosexual Exposure (HET)	303	23.7%	2,451	20.4%	222	7.9%				
Other Exposures	1	0.1%	16	0.1%	14	0.5%				
No Reported Exposure	162		2,156		430	·				
TOTAL	1,442		14,197		3,224					

		ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
			Race	e/Ethnicity					
FEMALE EXPOSURE CATEGORY	Н	lispanic	Non-Hispa	nic, Black, only	Non-Hispa	anic, White, only			
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure			
With Exposure	390	100.0%	6,703	100.0%	610	100.0%			
Injection Drug Users (IDU)	52	13.3%	1,527	22.8%	235	38.5%			
Heterosexual Exposure (HET)	338	86.7%	5,147	76.8%	370	60.7%			
Other Exposures	0	0.0%	29	0.4%	5	0.8%			
No Reported Exposure*	73		1,672	·	155				
TOTAL	463		8,375		765				

^{*} Includes 7 Hispanic cases, 116 non-Hispanic black cases, and 2 non-Hispanic white cases with Presumed Female Heterosexual exposure

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

		ADULT/ADOLESCENT TOTAL LIVING HIV CASES									
Exposure Category			Recent CD4 Test Results								
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+			
With Exposure	25,555	17,774	69.6%	554	11.5%	14.0%	17.9%	56.6%			
Men who have Sex with Men (MSM)	10,112	6,785	67.1%	573	9.1%	12.7%	18.2%	60.0%			
Injection Drug Users (IDU)	5,047	3,626	71.8%	499	16.3%	16.3%	17.5%	49.9%			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	979	661	67.5%	515	13.3%	17.2%	17.9%	51.6%			
Heterosexual Exposure (HET)	9,347	6,650	71.1%	566	11.1%	13.7%	17.7%	57.6%			
Other Exposures	70	52	74.3%	446	17.3%	17.3%	26.9%	38.5%			
No Reported Exposure*	4,875	2,794	57.3%	561	11.5%	14.4%	16.6%	57.5%			
TOTAL	30,430	20,568	67.6%	554	11.5%	14.0%	17.7%	56.8%			

^{*} Includes 127 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

	Adult/Adolescent Total Living HIV Cases							
EXPOSURE CATEGORY	No.		Recent Viral Lo	ad Test Results				
	NO.	No. with Test	% with Test	% Suppressed	Median Count			
With Exposure	25,555	16,933	66.3%	79.6%	10,611			
Men who have Sex with Men (MSM)	10,112	6,606	65.3%	81.0%	11,393			
Injection Drug Users (IDU)	5,047	3,231	64.0%	72.8%	10,486			
Men who have Sex with Men and Inject Drugs (MSM/IDU)	979	613	62.6%	77.8%	13,907			
Heterosexual Exposure (HET)	9,347	6,437	68.9%	81.9%	9,444			
Other Exposures	70	46	65.7%	69.6%	20,335			
No Reported Exposure*	4,875	2,784	57.1%	78.2%	11,111			
TOTAL	30,430	19,717	64.8%	79.4%	10,660			

^{*} Includes 127 cases with Presumed Female Heterosexual exposure

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

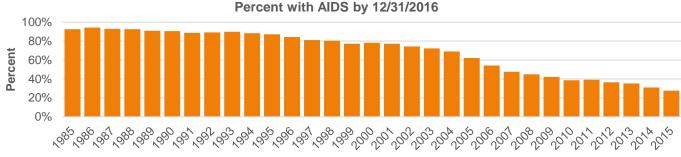
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017

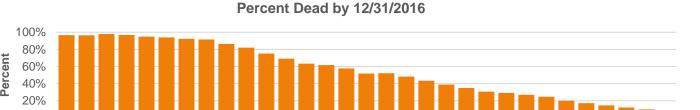


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			ADULT/AD	OLESCENT REPORTED	HIV DIAGNOS	ES		
YEAR OF HIV		Re	ported AIDS Diag	gnoses	Percent wi	ith AIDS by	Years After HI	V Diagnosis
DIAGNOSIS	No.	No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	358	341	95.3%	6.9	39.1%	39.1%	42.5%	66.8%
1985	699	647	92.6%	6.3	31.3%	32.9%	40.1%	74.7%
1986	926	872	94.2%	5.3	36.5%	37.7%	49.4%	81.5%
1987	1,240	1,152	92.9%	4.4	38.2%	40.6%	57.2%	83.2%
1988	1,675	1,551	92.6%	3.8	40.5%	44.4%	65.4%	85.5%
1989	2,143	1,949	90.9%	3.5	41.0%	45.6%	68.6%	84.1%
1990	2,213	2,003	90.5%	3.1	44.3%	51.3%	72.5%	84.7%
1991	2,569	2,278	88.7%	2.8	46.2%	55.0%	73.1%	83.0%
1992	2,443	2,177	89.1%	2.7	49.4%	57.8%	73.9%	82.6%
1993	2,174	1,955	89.9%	2.2	55.0%	63.4%	76.9%	85.5%
1994	2,008	1,774	88.3%	2.2	57.0%	64.4%	75.4%	83.5%
1995	2,006	1,749	87.2%	2.2	58.1%	63.6%	72.5%	82.5%
1996	1,862	1,568	84.2%	2.0	58.9%	63.2%	71.1%	80.1%
1997	1,893	1,536	81.1%	2.1	56.3%	60.7%	68.5%	76.8%
1998	1,867	1,501	80.4%	2.0	56.0%	59.8%	67.8%	76.0%
1999	1,811	1,398	77.2%	1.7	56.5%	60.4%	67.3%	73.9%
2000	1,741	1,361	78.2%	1.8	55.4%	59.0%	68.2%	75.0%
2001	1,865	1,440	77.2%	1.6	56.8%	60.2%	69.1%	74.4%
2002	2,106	1,565	74.3%	1.6	55.4%	59.1%	65.9%	71.4%
2003	1,978	1,430	72.3%	1.4	55.1%	58.2%	63.9%	70.2%
2004	2,016	1,394	69.1%	1.5	51.7%	54.9%	60.3%	67.1%
2005	2,091	1,298	62.1%	1.4	46.9%	49.6%	55.2%	61.2%
2006	2,196	1,189	54.1%	1.5	38.7%	41.1%	47.8%	53.7%
2007	2,233	1,064	47.6%	1.7	32.1%	34.3%	41.3%	
2008	2,125	954	44.9%	1.5	30.7%	33.7%	40.5%	
2009	1,774	749	42.2%	1.4	29.3%	31.6%	38.1%	
2010	1,812	701	38.7%	1.2	27.5%	30.3%	36.3%	
2011	1,492	583	39.1%	0.8	30.2%	33.6%	37.9%	
2012	1,385	505	36.5%	0.7	29.6%	32.1%		
2013	1,325	468	35.3%	0.4	31.2%	33.0%		
2014	1,284	398	31.0%	0.4	26.6%	29.3%		
2015	1,225	338	27.6%	0.2	25.8%			
TOTAL	56,535	39,888	70.6%	2.3	44.8%	48.9%	58.6%	67.0%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



Year of AIDS Diagnosis

	Adult/Adolescent Reported AIDS Diagnoses							
YEAR OF	_	Repo	rted AIDS De		Percent A	ercent Alive by Years After AIDS Diagnosis		
AIDS				Mean				
DIAGNOSIS	No.	No.	% Dead	Years from	1 Year	2 Years	5 Years	10 Years
			75 - 55.55	AIDS to				
4005	1.15	4.40	00.00/	Death	40.40/	00.70/	10.00/	7.00/
<1985	145	140	96.6%	1.7	42.1%	20.7%	10.3%	7.6%
1985	210	203	96.7%	1.7	42.4%	19.5%	11.0%	5.7%
1986	315	304	96.5%	2.2	50.8%	32.7%	13.0%	8.3%
1987	495	485	98.0%	2.1	57.0%	31.7%	11.1%	5.7%
1988	691	669	96.8%	2.3	60.6%	37.9%	13.7%	6.4%
1989	924	878	95.0%	2.7	64.0%	43.5%	17.6%	9.5%
1990	1,174	1,103	94.0%	2.9	66.6%	47.7%	21.2%	12.0%
1991	1,466	1,353	92.3%	2.7	68.3%	48.2%	18.9%	12.8%
1992	1,957	1,790	91.5%	3.1	71.7%	50.3%	22.1%	16.2%
1993	2,250	1,943	86.4%	3.7	77.0%	56.4%	33.2%	22.5%
1994	2,174	1,783	82.0%	3.9	77.8%	58.9%	39.7%	26.7%
1995	2,174	1,634	75.2%	4.8	78.2%	67.2%	51.4%	37.3%
1996	1,945	1,344	69.1%	5.3	82.3%	75.6%	60.3%	44.0%
1997	1,690	1,072	63.4%	5.3	85.0%	77.9%	63.4%	48.6%
1998	1,545	952	61.6%	5.4	86.9%	80.8%	66.0%	49.3%
1999	1,543	891	57.7%	5.1	87.3%	80.8%	66.4%	51.8%
2000	1,440	745	51.7%	5.1	88.2%	83.7%	69.9%	56.6%
2001	1,558	813	52.2%	4.5	86.6%	79.8%	66.8%	55.3%
2002	1,618	782	48.3%	4.7	88.2%	83.2%	71.2%	59.6%
2003	1,577	685	43.4%	3.8	85.5%	80.2%	70.5%	60.9%
2004	1,537	596	38.8%	4.0	88.7%	84.3%	74.8%	65.2%
2005	1,474	516	35.0%	3.6	88.6%	84.7%	76.0%	67.2%
2006	1,319	405	30.7%	3.3	89.7%	85.8%	77.9%	69.6%
2007	1,094	319	29.2%	3.0	89.1%	86.1%	79.2%	
2008	1,046	282	27.0%	2.5	89.2%	85.4%	78.5%	
2009	891	220	24.7%	2.4	90.6%	87.2%	79.5%	
2010	998	201	20.1%	2.3	91.6%	89.0%	83.4%	
2011	826	142	17.2%	2.1	93.7%	90.9%	83.8%	
2012	896	131	14.6%	1.4	91.7%	89.8%		
2013	856	104	12.1%	1.1	93.0%	90.1%		
2014	662	66	10.0%	0.7	92.6%	90.6%		
2015*	643	50	7.8%	0.4	93.2%			
TOTAL	39,133	22,601	57.8%	3.8	82.1%	72.3%	57.8%	48.3%
	55,155	,001	0070	0.0	32.170	. 2.0 /0	01.070	10.070

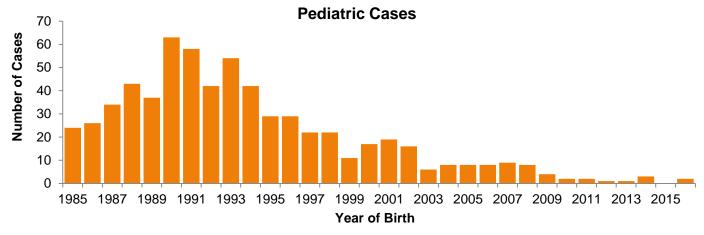
^{*2015} AIDS deaths are preliminary

0%

Section X – Pediatric Cases

Figure 13 - Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES No. by Year of No				PEDIATRIC TOTAL LIVING HIV CASES		
	No. by Year of			No. by Year of	No. Alive on 12/31 of		
	Birth	Diagnosis	AIDS Diagnosis	Death	Each Year		
<1985	53	3	1	0			
1985	24	14	8	2	17		
1986	26	14	6	4	27		
1987	34	22	14	5	44		
1988	43	29	19	6	67		
1989	37	34	25	8	93		
1990	63	52	22	9	136		
1991	58	54	36	12	178		
1992	42	62	37	12	227		
1993	54	55	35	16	266		
1994	42	41	30	15	290		
1995	29	30	22	20	299		
1996	29	37	24	19	317		
1997	22	17	12	6	328		
1998	22	20	10	6	342		
1999	11	28	14	6	362		
2000	17	14	5	1	375		
2001	19	14	12	5	383		
2002	16	19	11	4	397		
2003	6	4	2	6	395		
2004 2005	8	10	4	5	400		
2005	8	9	5	2	406		
2006	<u>8</u>	18 54	6	<u>4</u> 5	421		
2007			· · · · · · · · · · · · · · · · · · ·		470		
2009	8	14 10	<u>10</u>	3 2	482 490		
2010	2	3	9	6			
2010	2	6	7		489		
2011		3	3	4	493 493		
2012	<u></u>	3	11	2	493		
2013	3	6	7	1	500		
2014	0	0	10	3	497		
2016	2	4	7	<u> </u>	497		
	703	703		·	499		
TOTAL	703	703	434	204			

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL I	LIVING HIV CASES
JURISDICTION OF RESIDENCE AT DIAGNOSIS	No.	% of Total
Allegany	1	0.2%
Anne Arundel	21	4.2%
Baltimore City	217	43.5%
Baltimore	49	9.8%
Calvert	2	0.4%
Caroline	1	0.2%
Carroll	3	0.6%
Cecil	3	0.6%
Charles	4	0.8%
Dorchester	4	0.8%
Frederick	6	1.2%
Garrett	0	0.0%
Harford	13	2.6%
Howard	8	1.6%
Kent	1	0.2%
Montgomery	46	9.2%
Prince George's	110	22.0%
Queen Anne's	0	0.0%
Saint Mary's	1	0.2%
Somerset	1	0.2%
Talbot	2	0.4%
Washington	2	0.4%
Wicomico	1	0.2%
Worcester	1	0.2%
Corrections	2	0.4%
TOTAL	499	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES			
SEX AT BIRTH	No.	% of Total		
Male	231	46.3%		
Female	268	53.7%		
TOTAL	499	100.0%		

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES			
RACE/ETHNICITY	No.	% of Total		
Hispanic	17	3.4%		
Non-Hispanic	482	96.6%		
American Indian/ Alaska Native, only	1	0.2%		
Asian, only	1	0.2%		
Black, only	420	84.2%		
Native Hawaiian/Other Pacific Islander, only	0	0.0%		
White, only	39	7.8%		
Multiracial/Other	21	4.2%		
TOTAL	499	100.0%		

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 24 – Perinatal HIV Transmissions by Year of Birth, 2007-2016

YEAR OF BIRTH	LIVE BIRTHS	Women of Childbearing Age Total Living HIV Cases	REPORTED PERINATAL HIV EXPOSURES	CONFIRMED PERINATAL HIV TRANSMISSIONS				
	No.	No.	No.	No.	%	Rate		
2007	78,057	8,205	175	7	4.0%	9.0		
2008	77,268	8,363	207	6	2.9%	7.8		
2009	74,999	8,426	172	3	1.7%	4.0		
2010	73,783	8,386	178	4	2.2%	5.4		
2011	73,052	8,286	173	2	1.2%	2.7		
2012	72,751	8,069	183	1	0.5%	1.4		
2013	71,806	7,819	163	1	0.6%	1.4		
2014	73,588	7,572	202	3	1.5%	4.1		
2015	73,544	7,326	142	0	0.0%	0.0		
2016*		7,080	173	2	1.2%			
TOTAL	821,158		2078	39	1.9%	4.7		

^{*2016} live births are not available yet.

Live births from Maryland Vital Statistics Annual Report 2016.

Women of childbearing age (ages 13-49) total living HIV cases and perinatal HIV exposures from <u>Maryland Enhanced HIV/AIDS Reporting System, reported through 6/30/2017.</u>

Live Births: Infants born alive in the general population.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old).

Reported Perinatal HIV Exposures: Reported infants born to an HIV positive mother during the specified year, with a residence of Maryland at time of birth.

Confirmed Perinatal HIV Transmissions: Reported infants born to an HIV positive mother, with a confirmed HIV diagnosis and a resident of Maryland at time of birth.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Confirmed Perinatal HIV Transmissions: Reported infants born to an HIV positive mother, with a confirmed HIV diagnosis and a resident of Maryland at time of birth.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Live Births: Babies born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported infants born to an HIV positive mother during the specified year, with a residence of Maryland at time of birth.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old).